AZIENDA CON SISTEMA QUALITÀ CERTIFICATO (UNI-EN 9001 ISO) COMPANY WITH QUALITY SYSTEM CERTIFIED

turozzi fratelli S.r.l.

Raccordi in acciaio per impianti ad alta pressione
*Steel fittings for high pressure plants*

| CLIENTE / *Purchaser* | CERTIFICATO DI COLLAUDO *Works certificate* | FOGLIO *Sheet* |
|---|---|---|
| DEUCHI Im/Export & Service | EN 10204 3.1 | |
| ORDINE / *Order* | | |
| 3557 ns.DdT 884 | N. 49692 DEL / *Of* 19/06/2012 | 1/1 |

| ITEM *Item* | QUANTITÀ *Quantity* | DESCRIZIONE / *Description* | COLATA *Heat* | MATERIALE *Material* | CERTIF. ORIG. *Mill certif.* | ACCIAIERIA / FORNITORE *Steel plant / Supplier* |
|---|---|---|---|---|---|---|
| 1 | 2 | STREET ELBOW 1 3000 ISO7 R-RP F304L | 343041 | A182 F304L/304 | 82517/3115 | UGITECH |
| 2 | 48 | UNION (L62) 3/4 3000 ISO7 RP F304L | 995563 | A182 F304L/304 | 45253.9L | OLARRA |

## ANALISI CHIMICA - *Chemical Analysis*

| COLATA *Heat* | C % | Mn % | Si % | P % | S % | Ni % | Cr % | Mo % | Ti % | V % | Cu % | Al % | Nb % | N % | % | % | C.E. % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 343041 | 0,022 | 1,060 | 0,360 | 0,027 | 0,024 | 9,340 | 18,100 | | | | | | | 0,060 | | | |
| 995563 | 0,021 | 1,600 | 0,360 | 0,033 | 0,028 | 8,000 | 18,200 | | | | | | | 0,092 | | | |

## CARATTERISTICHE MECCANICHE - *Mechanical Test*

| COLATA *Heat* | R Tensile Strength N/mmq. | S Yield Point N/mmq. | A : 2" Elongation % | C Reduction of area % | Bending Test | Flattening Test | Hydraulic Test | HB Hardness test | Kv Impact test J | Temp. °C | STATO DI FORNIT. (TRATT. TERM.) *Supply cond. (heat treatment)* | TEMP. °C | NOTE *Remarks* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 343041 | 626 | 292 | 55,0 | 80,0 | | | | | | | SOLUT.TREATED | 1050 | |
| 995563 | 653 | 352 | 49,0 | 73,0 | | | | | | | SOLUT.ANNEALED | 1050 | |

| NATURA DEL MATERIALE / *Kind of material* | NORMA DI RIFERIMENTO *Referenced standard* | NOTE / *Remarks* |
|---|---|---|
| Acciaio elaborato al forno elettrico<br>Steel made by electric furnace | ASTM ultima edizione<br>ASTM latest edition | |

| COLLAUDI INTERNI / *Works inspection* | RISULT. *Result* | COLLAUDI SUPPLEMENTARI / *Supplementary tests* | RISULT. *Result* |
|---|---|---|---|
| Dimensionale/Visivo<br>Dimensional/Visual | Ok<br>Ok | | |

| RESPONSABILE QUALITÀ / *Quality Manager* | ENTE COLLAUDATORE / *Inspection agency* | turozzi fratelli |
|---|---|---|
| | | |

TOTALE P.01